

MT-181033/N

430 - 440 MHz 3.5 dBi Reader Antenna



Electrical

| | |
|-----------------------|---|
| Regulatory Compliance | RoHS, CE0682 |
| Frequency | 430 – 440 MHz |
| Gain | 430 – 435 MHz @ 3 dBi min 3.5 dBi typ 435 – 440 MHz @ 2.5 dBi min 3 dBi typ |
| VSWR | 1.7 : 1 typ 2.5 : 1 max @ 430 – 432 MHz 1.6 : 1 typ 1.9 : 1 max @ 433 – 435 MHz 1.7 : 1 typ 2.5 : 1 max @ 436 – 440 MHz |
| 3 dB Beam Width | Azimuth: 86° typ Elevation: 90° typ |
| Polarization | Linear Vertical or Horizontal |
| Cross Polarization | -14 dB max |
| F/B Ratio | -14 dB max |
| Input Impedance | 50 ohm |
| Input Power | 6 W max |
| Lightning Protection | DC Grounded |

Mechanical

| | |
|------------|---|
| Dimensions | 305 x 305 x 25 max |
| Weight | 2.3 kg max |
| Connector | N-type Female |
| Radome | Plastic |
| Base Plate | Aluminum with chemical conversion coating |

Environmental

| Test | Standard | Duration | Temperature | Notes |
|---------------------------------|----------------------------------|----------|-------------------|---|
| Low Temperature | IEC 68-2-1 | 72 h | -55 °C | |
| High Temperature | IEC 68-2-2 | 72 h | +71 °C | |
| Temp. Cycling | IEC 68-2-14 | 1 h | -45 °C +70 °C | 3 Cycles |
| Thermal Shock Nono-Operation | | | -30°C to +70°C | Ramp 30°C/min |
| Humidity | ETSI EN300-2-4 T4.1E | 144 h | | 95% |
| Water Tightness | IEC 529 | | | IP67* |
| Dust Resistance | | | | IP67* |
| Solar Radiation | ASTM G53 | 1000 h | | |
| Ozone Resistance | ETSI 300 | | | |
| Flammability | UL 94 | | | Class HB |
| Quasi Random Vibration | | | | 20g rms for 4 hours |
| Vehicle Vibration Operating | 1g rms, 10-500 Hz, in 3 axis | | | 6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis. |
| Mechanical Shock Operating | 10g, 11 msec, half sine pulse | | | |

* For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

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11 Hamelacha st. Afek Industrial Park, Rosh-Ha'AYin 4809121 | Tel. +972.3.9008900 | Fax. +972.3.9008901